

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 December 2003 (31.12.2003)

PCT

(10) International Publication Number
WO 2004/002133 A1

(51) International Patent Classification⁷: **H04N 3/233, 9/28**

(21) International Application Number: **PCT/EP2003/050224**

(22) International Filing Date: 12 June 2003 (12.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0207647 20 June 2002 (20.06.2002) FR

(71) Applicant (for all designated States except US): **THOM-SON LICENSING S.A. [FR/FR]**; 46 Quai Alphonse Le Gallo, F-92100 BOULOGNE-BILLANCOURT (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PETIT, Michel** [FR/FR]; 2, rue du Mont Frit, F-39290 BIARNE (FR). **BELLANGER, Jean-Luc** [FR/FR]; 13, rue Puits, F-39100 GEVRY (FR). **PERDRISSET, Patrice** [FR/FR]; 2, rue du Gamay, F-21550 LADOIX-SERRIGNY (FR).

(74) Agent: **BERTHIER, Karine**; 46 Quai Alphonse Le Gallo, F-92648 BOULOGNE cedex (FR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

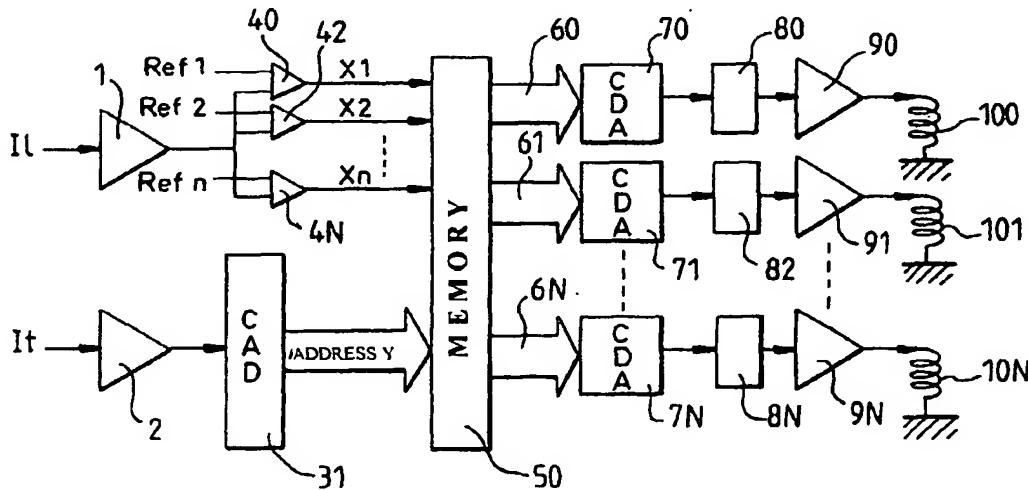
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **DIGITAL DEVICE FOR CORRECTING THE IMAGE FORMED ON THE SCREEN OF A CATHODE RAY TUBE**



(57) **Abstract:** Device for correcting the line and/or frame fields of a deflector for cathode ray tube comprising - a current sensor (1) for evaluating the value of a line current II - a series of comparators (40 to 4N) intended to compare the value of the line current II with reference values - a current sensor (2) for evaluating the value of the frame current It - an analogue/digital converter (31) for converting the analogue value of the frame current - a programmed correction memory (50) which is addressed by the output signals from the comparators and from the analogue/digital converter so as to deliver to at least one digital/analogue converter (70, 71... 7N), data (60, 61, ...6N) which are dependent on the addressing signals - a low-pass filter (80, 81, ... 8N) for filtering the output of the digital/analogue converter - at least one correction coil (100, 101,...10N) for correcting the deflection fields of the deflector, and generating a correction field as a function of the output value from the low-pass filter.

WO 2004/002133 A1